

**Washington**

GOVERNMENT

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SDMS Document ID

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Fax**ADMINISTRATIVE
RECORD**To: BONNIE LAUELLEFrom: BRIAN MEYERSFax: 303-312-6897Pages (including cover sheet): 15Phone:Date: 11/9/00Re: ICP ResultsCC:**Comments:**PIG STUDY ICP SAMPLE RESULTS (FINAL)IF YOU HAVE ANY QUESTIONS OR CONCERN'S FEEL FREE
TO CONTACT ME @ 303-948-4687

DATA VALIDATION ASSESSMENT
VB/I70

Paragon Work Order: 00-10-156

**ADMINISTRATIVE
RECORD**

The following twelve soil samples were analyzed for total metals:

3-15622-B	3-15627-F	3-15703-B	3-15700-F
3-15623-B	3-15629-F	3-15704-B	3-15701-F
3-15624-B	3-15630-F	3-15705-B	3-15702-F

These samples were collected on 10/19/00.

Metals

Barium, beryllium, calcium, iron, manganese, potassium, sodium, and thallium were detected in the method blank at 0.079 mg/Kg, 0.066 mg/Kg, 6.7 mg/Kg, 3.7 mg/Kg, 0.055 mg/Kg, 7.3 mg/Kg, 11 mg/Kg, and 0.41 mg/Kg respectively. Associated results less than 5 times the absolute value of the blank were qualified non-detect (U). The results for aluminum, cadmium, copper, mercury, nickel, and vanadium in the method blank were -1.9 mg/Kg, -0.034 mg/Kg, -0.12 mg/Kg, -0.0058 mg/Kg, -0.086 mg/Kg, and -0.035 mg/Kg respectively. Associated results were greater than five times the absolute value of the blank, therefore, no data was qualified based on this.

The initial and continuing calibration verifications were within acceptable limits.

Aluminum, antimony, barium, beryllium, cadmium, calcium, cobalt, iron, magnesium, manganese, nickel, sodium, and zinc were detected in the initial calibration blank at 0.0635 mg/L, 0.00541 mg/L, 0.00035 mg/L, 0.00074 mg/L, 0.00025 mg/L, 0.0603 mg/L, 0.00059 mg/L, 0.0276 mg/L, 0.00804 mg/L, 0.00088 mg/L, 0.00106 mg/L, 0.1 mg/L, and 0.00062 mg/L. Associated results less than 5 times the absolute value of the blank were qualified non-detect (U). The result for mercury in the initial calibration blank was -0.000041 mg/L. Associated results were greater than five times the absolute value of the blank, therefore, no data was qualified based on this.

The results for mercury in CCB1, CCB2, CCB3, and CCB4 were -0.00005 mg/L, -0.000054 mg/L, -0.000055 mg/L, and -0.000043 mg/L respectively. Associated results were greater than five times the absolute value of the blank, therefore, no data was qualified based on this.

Aluminum, barium, beryllium, calcium, iron, magnesium, manganese, potassium, sodium, thallium, and zinc were detected in CCB9 at 0.0685 mg/L, 0.00041 mg/L, 0.00113 mg/L, 0.0968 mg/L, 0.0483 mg/L, 0.0461 mg/L, 0.00078 mg/L, 0.067 mg/L, 0.117 mg/L, 0.00226 mg/L, and 0.00081 mg/L respectively. Associated results less than 5 times the absolute value of the blank

were qualified non-detect (U). The results for copper and nickel in CCB9 were -0.001 mg/L and -0.00069 mg/L. Associated results were greater than five times the absolute value of the blank, therefore, no data was qualified based on this.

Aluminum, barium, beryllium, calcium, iron, lead, manganese, potassium, and sodium were detected in CCB10 at 0.0223 mg/L, 0.00015 mg/L, 0.00068 mg/L, 0.0487 mg/L, 0.0338 mg/L, 0.00248 mg/L, 0.00051 mg/L, 0.093 mg/L, and 0.0925 mg/L respectively. Associated results less than 5 times the absolute value of the blank were qualified non-detect (U). The results for cadmium, copper, magnesium, and nickel in CCB10 were -0.00024 mg/L, -0.00147 mg/L, -0.00837 mg/L, and -0.00102 mg/L. Associated results were greater than five times the absolute value of the blank, therefore, no data was qualified based on this.

Aluminum, antimony, beryllium, calcium, iron, manganese, sodium, and zinc were detected in CCB11 at 0.0378 mg/L, 0.00289 mg/L, 0.00072 mg/L, 0.0433 mg/L, 0.0309 mg/L, 0.00031 mg/L, 0.0896 mg/L, and 0.00054 mg/L respectively. Associated results less than 5 times the absolute value of the blank were qualified non-detect (U). The results for arsenic, cadmium, copper, magnesium, and nickel in CCB11 were -0.00158 mg/L, -0.0002 mg/L, -0.00167 mg/L, -0.014 mg/L, and -0.00087 mg/L. Associated results were greater than five times the absolute value of the blank, therefore, no data was qualified based on this.

The MS/MSD (3-15701-F) percent recoveries for aluminum (809%, 558%), iron (1388%, 47%), lead (130%, 78%), and manganese (68%, 28%) were outside laboratory QC limits. The MSD (3-15701-F) percent recoveries for zinc (37%) was below laboratory QC limits. The sample concentration exceeds the spike concentration by a factor of 4 or greater, therefore, no data was qualified based on this. The MS/MSD (3-15701-F) percent recoveries for antimony (56%, 55%) were below laboratory QC limits. The LCS and post spike percent recoveries were within laboratory QC limits, therefore, no data was qualified based on this. The MSD (3-15701-F) percent recovery for mercury (141%) was greater than laboratory QC limits. The MS percent recovery was within laboratory QC limits, therefore, no data was qualified based on this.

The duplicate results were within acceptable limits.

The LCS percent recoveries were within laboratory QC limits.

The serial dilution RPD for sodium (18%) was greater than 10%. Associated sample results were qualified estimated (J).

The ICP interference check samples were within acceptable limits.

The raw data was reviewed for samples 3-15700-B and 3-15624-B. Sample results were verified for these two samples and are correct.

Total ICP Metals

Method SW6010

Sample Results

Lab Name: Paragon Analytics, Inc.

Work Order Number: 0010156

Client Name: Morrison Knudsen Corporation

ClientProject ID: VBI-I-70 IIIB 4994

Field ID: 3-15622-B
Lab ID: 0010156-1

Sample Matrix: SOIL

% Moisture: 0.2

Date Collected: 19-Oct-00

Date Extracted: 23-Oct-00

Date Analyzed: 23-Oct-00

Prep Batch: IP001023-1

QCBatchID: IP001023-1-1

Run ID: IT001023-1A4

Cleanup: NONE

Basis: Dry Weight

Sample Aliquot: 1 G

Final Volume: 100 ML

Result Units: MG/KG

File Name: TS01023

CASNO	Target Analyte	Dilution Factor	Result	Reporting Limit	MDL	Result Qualifier	EPA Qualifier
7429-90-5	ALUMINUM	1	2900	20	0.69		
7440-36-0	ANTIMONY	1	1.8	2	0.26	B 4	
7440-38-2	ARSENIC	1	9.6	1	0.28		
7440-39-3	BARIUM	1	130	10	0.018		
7440-41-7	BERYLLIUM	1	0.33	0.5	0.015	B 4	
7440-43-9	CADMIUM	1	1.8	0.5	0.017		
7440-70-2	CALCIUM	1	3400	100	0.54		
7440-47-3	CHROMIUM	1	15	1	0.047		
7440-48-4	COBALT	1	3.1	1	0.05		
7440-50-8	COPPER	1	35	1	0.032		
7439-89-6	IRON	1	16000	10	0.8		
7439-92-1	LEAD	1	610	0.3	0.14		
7439-95-4	MAGNESIUM	1	1100	100	0.79		
7439-96-5	MANGANESE	1	230	1	0.025		
7440-02-0	NICKEL	1	8.5	2	0.078		
7440-09-7	POTASSIUM	1	840	100	5.3		
7782-49-2	SELENIUM	1	1	0.5	0.27		
7440-22-4	SILVER	1	1	1	0.063	U	
7440-23-5	SODIUM	1	140	100	0.25	S	
7440-28-0	THALLIUM	1	1	1	0.39	U	
7440-52-2	VANADIUM	1	9.9	1	0.033		
7440-66-6	ZINC	1	300	2	0.29		

Data Package ID: IT0010156-1

Date Printed: Tuesday, October 24, 2000

Paragon Analytics Inc.

LIMS Version: 1.802

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Total ICP Metals

Method SW6010

Sample Results

Lab Name: Paragon Analytics, Inc.

Work Order Number: 0010156

Client Name: Morrison Knudsen Corporation

ClientProject ID: VB/I-70 IIIB 4994

Field ID:	3-15700-F
Lab ID:	0010156-10

Sample Matrix: SOIL

% Moisture: 0.3

Date Collected: 19-Oct-00

Date Extracted: 23-Oct-00

Date Analyzed: 23-Oct-00

Prep Batch: IP001023-1

QCBatchID: IP001023-1-1

Run ID: IT001023-1A4

Cleanup: NONE

Basis: Dry Weight

Sample Aliquot: 1 G

Final Volume: 100 ML

Result Units: MG/KG

File Name: TSD1023

CASNO	Target Analyte	Dilution Factor	Result	Reporting Limit	MDL	Result Qualifier	EPA Qualifier
7429-90-5	ALUMINUM	1	5900	20	0.69		
7440-36-0	ANTIMONY	1	2.3	2	0.26	L	
7440-36-2	ARSENIC	1	26	1	0.28		
7440-39-3	BARIUM	1	290	10	0.018		
7440-41-7	BERYLLIUM	1	0.66	0.5	0.015		
7440-43-9	CADMIUM	1	4.2	0.5	0.017		
7440-70-2	CALCIUM	1	6200	100	0.54		
7440-47-3	CHROMIUM	1	21	1	0.048		
7440-48-4	COBALT	1	5.5	1	0.05		
7440-50-8	COPPER	1	54	1	0.032		
7439-89-6	IRON	1	16000	10	0.8		
7439-92-1	LEAD	1	970	0.3	0.14		
7439-95-4	MAGNESIUM	1	1800	100	0.79		
7439-96-5	MANGANESE	1	410	1	0.025		
7440-02-0	NICKEL	1	9.5	2	0.078		
7440-09-7	POTASSIUM	1	2000	100	5.3		
7782-49-2	SELENIUM	1	1	0.5	0.27		
7440-22-4	SILVER	1	0.81	1	0.063	B	
7440-23-5	SODIUM	1	180	100	0.25	J	
7440-28-0	THALLIUM	1	1	1	0.39	U	
7440-62-2	VANADIUM	1	23	1	0.033		
7440-66-6	ZINC	1	540	2	0.29		

Data Package ID: IT0010156-1

Total ICP Metals

Method SW6010

Sample Results

Lab Name: Paragon Analytics, Inc.

Work Order Number: 0010156

Client Name: Morrison Knudsen Corporation

ClientProject ID: VB/I-70 IIIB 4994

Field ID: 3-15701-F	Lab ID: 0010156-11
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Sample Matrix: SOIL

% Moisture: 0.2
Date Collected: 19-Oct-00
Date Extracted: 23-Oct-00
Date Analyzed: 23-Oct-00

Prep Batch: IP001023-1

QCBatchID: IP001023-1-1
Run ID: IT001023-1A4
Cleanup: NONE
Basis: Dry Weight

Sample Aliquot: 1 G
Final Volume: 100 ML
Result Units: MG/KG
File Name: TS01023

CASNO	Target Analyte	Dilution Factor	Result	Reporting Limit	MDL	Result Qualifier	EPA Qualifier
7429-90-5	ALUMINUM	1	6100	20	0.69		
7440-36-0	ANTIMONY	1	2	2	0.26	B4	N
7440-36-2	ARSENIC	1	25	1	0.28		
7440-39-3	BARIUM	1	300	10	0.018		
7440-41-7	BERYLLIUM	1	0.67	0.5	0.015		
7440-43-9	CADMIUM	1	4.3	0.5	0.017		
7440-70-2	CALCIUM	1	6200	100	0.54		
7440-47-3	CHROMIUM	1	21	1	0.047		
7440-48-4	COBALT	1	5.5	1	0.05		
7440-50-8	COPPER	1	54	1	0.032		
7439-89-6	IRON	1	16000	10	0.8		
7439-92-1	LEAD	10	1000	3	1.4		
7439-95-4	MAGNESIUM	1	1800	100	0.79		
7439-96-5	MANGANESE	1	430	1	0.025		
7440-02-0	NICKEL	1	9.6	2	0.078		
7440-09-7	POTASSIUM	1	2000	100	5.3		
7782-49-2	SELENIUM	1	1.1	0.5	0.27		
7440-22-4	SILVER	1	0.77	1	0.063	B	
7440-23-5	SODIUM	1	180	100	0.25	J	E
7440-28-0	THALLIUM	1	1	1	0.39	U	
7440-62-2	VANADIUM	1	23	1	0.033		
7440-66-6	ZINC	1	560	2	0.29		

Data Package ID: IT0010156-1

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Paragon Analytics Inc.

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Total ICP Metals

Method SW6010

Sample Results

Lab Name: Paragon Analytics, Inc.

Work Order Number: 0010156

Client Name: Morrison Knudsen Corporation

ClientProject ID: VB/I-70 IIIB 4984

Field ID: 3-15702-F	Sample Matrix: SOIL % Moisture: 0.3	Prep Batch: IP001023-1 QCBatchID: IP001023-1-1 Run ID: IT001023-1A4 Cleanup: NONE Basis: Dry Weight	Sample Aliquot: 1 G Final Volume: 100 ML Result Units: MG/KG
Lab ID: 0010156-12	Date Collected: 19-Oct-00 Date Extracted: 23-Oct-00 Date Analyzed: 23-Oct-00		File Name: TS01023

CASNO	Target Analyte	Dilution Factor	Result	Reporting Limit	MDL	Result Qualifier	EPA Qualifier
7429-90-5	ALUMINUM	1	5500	20	0.69		
7440-36-0	ANTIMONY	1	0.91	2	0.26	B U	
7440-38-2	ARSENIC	1	24	1	0.28		
7440-39-3	BARIUM	1	290	10	0.018		
7440-41-7	BERYLLIUM	1	0.61	0.5	0.015		
7440-43-9	CADMIUM	1	4.2	0.5	0.017		
7440-70-2	CALCIUM	1	6100	100	0.54		
7440-47-3	CHROMIUM	1	18	1	0.048		
7440-48-4	COBALT	1	4.6	1	0.05		
7440-50-8	COPPER	1	50	1	0.032		
7439-89-6	IRON	1	11000	10	0.8		
7439-92-1	LEAD	1	990	0.3	0.14		
7439-85-4	MAGNESIUM	1	1700	100	0.79		
7439-96-5	MANGANESE	1	400	1	0.025		
7440-02-0	NICKEL	1	8.4	2	0.078		
7440-09-7	POTASSIUM	1	2100	100	5.3		
7782-49-2	SELENIUM	1	1.2	0.5	0.27		
7440-ZZ-4	SILVER	1	0.61	1	0.063	B	
7440-23-5	SODIUM	1	180	100	0.25	S	
7440-28-0	THALLIUM	1	1	1	0.39	U	
7440-62-2	VANADIUM	1	16	1	0.033		
7440-66-6	ZINC	1	540	2	0.29		

Data Package ID: IT0010156-1

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Total ICP Metals**Method SW6010****Sample Results**

Lab Name: Paragon Analytics, Inc.

Work Order Number: 0010156

Client Name: Morrison Knudsen Corporation

ClientProject ID: VB/I-70 IIIB 4894

Field ID: 3-15623-B Lab ID: 0010156-2	Sample Matrix: SOIL % Moisture: 0.2 Date Collected: 19-Oct-00 Date Extracted: 23-Oct-00 Date Analyzed: 23-Oct-00	Prep Batch: IP001023-1 QCBatchID: IP001023-1-1 Run ID: IT001023-1A4 Cleanup: NONE Basis: Dry Weight	Sample Aliquot: 1 G Final Volume: 100 ML Result Units: MG/KG
			File Name: TS01023

CASNO	Target Analyte	Dilution Factor	Result	Reporting Limit	MDL	Result Qualifier	EPA Qualifier
7429-90-5	ALUMINUM	1	2500	20	0.69		
7440-36-0	ANTIMONY	1	1.2	2	0.26	B/L	
7440-38-2	ARSENIC	1	8.7	1	0.28		
7440-39-3	BARIUM	1	260	10	0.018		
7440-41-7	BERYLLIUM	1	0.28	0.5	0.015	B/L	
7440-43-9	CADMIUM	1	2.2	0.5	0.017		
7440-70-2	CALCIUM	1	4000	100	0.54		
7440-47-3	CHROMIUM	1	7.1	1	0.047		
7440-48-4	COBALT	1	2.6	1	0.05		
7440-50-8	COPPER	1	24	1	0.032		
7439-89-6	IRON	1	10000	10	0.8		
7439-92-1	LEAD	10	1100	3	1.4		
7439-95-4	MAGNESIUM	1	1200	100	0.79		
7439-96-5	MANGANESE	1	280	1	0.025		
7440-02-0	NICKEL	1	4.5	2	0.078		
7440-09-7	POTASSIUM	1	780	100	5.3		
7782-49-2	SELENIUM	1	0.68	0.5	0.27		
7440-22-4	SILVER	1	0.32	1	0.063	B	
7440-23-5	SODIUM	1	140	100	0.25	J	
7440-28-0	THALLIUM	1	1	1	0.39	U	
7440-62-2	VANADIUM	1	9.8	1	0.033		
7440-66-6	ZINC	1	540	2	0.29		

Data Package ID: IT0010156-1

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Paragon Analytics Inc.

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Total ICP Metals**Method SW6010****Sample Results****Lab Name:** Paragon Analytics, Inc.**Work Order Number:** 0010156**Client Name:** Morrison Knudsen Corporation**ClientProject ID:** VB/I-70 IIB 4994

Field ID:	3-15624-B
Lab ID:	0010156-3

Sample Matrix: SOIL**% Moisture:** 0.5**Date Collected:** 19-Oct-00**Date Extracted:** 23-Oct-00**Date Analyzed:** 23-Oct-00**Prep Batch:** IP001023-1**QC BatchID:** IP001023-1A1**Run ID:** IT001023-1A4**Cleanup:** NONE**Basis:** Dry Weight**Sample Aliquot:** 1 G**Final Volume:** 100 ML**Result Units:** MG/KG**File Name:** TS01023

CASNO	Target Analyte	Dilution Factor	Result	Reporting Limit	MDL	Result Qualifier	EPA Qualifier
7428-90-5	ALUMINUM	1	2800	20	0.69		
7440-36-0	ANTIMONY	1	0.67	2	0.27	B	U
7440-38-2	ARSENIC	1	9.5	1	0.28		
7440-39-3	BARIUM	1	130	10	0.018		
7440-41-7	BERYLLIUM	1	0.34	0.5	0.015	B	U
7440-43-9	CADMIUM	1	2.2	0.5	0.017		
7440-70-2	CALCIUM	1	4100	100	0.54		
7440-47-3	CHROMIUM	1	7.3	1	0.048		
7440-48-4	COBALT	1	2.9	1	0.05		
7440-50-8	COPPER	1	21	1	0.032		
7439-89-6	IRON	1	7700	10	0.8		
7439-92-1	LEAD	1	620	0.3	0.14		
7439-95-4	MAGNESIUM	1	1200	100	0.79		
7439-96-5	MANGANESE	1	180	1	0.025		
7440-02-0	NICKEL	1	5.2	2	0.078		
7440-09-7	POTASSIUM	1	920	100	5.3		
7782-49-2	SELENIUM	1	0.38	0.5	0.27	B	
7440-22-4	SILVER	1	0.16	1	0.063	B	
7440-23-5	SODIUM	1	160	100	0.25	J	
7440-28-0	THALLIUM	1	1	1	0.39	U	
7440-62-2	VANADIUM	1	10	1	0.033		
7440-66-6	ZINC	1	300	2	0.29		

Data Package ID: IT0010156-1**Date Printed:** Tuesday, October 24, 2000**Paragon Analytics Inc.**

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Total ICP Metals**Method SW6010****Sample Results****Lab Name:** Paragon Analytics, Inc.**Work Order Number:** 0010156**Client Name:** Morrison Knudsen Corporation**ClientProject ID:** VB/I-70 IIIB 4994

Field ID: 3-15627-F	Sample Matrix: SOIL
Lab ID: 0010156-4	% Moisture: 0.5

Date Collected: 19-Oct-00
Date Extracted: 23-Oct-00
Date Analyzed: 23-Oct-00

Prep Batch: IP001023-1
QCBatchID: IP001023-1-1
Run ID: IT001023-1A4
Cleanup: NONE
Basis: Dry Weight

Sample Aliquot: 1 G
Final Volume: 100 ML
Result Units: MG/KG
File Name: TS01023

CASNO	Target Analyte	Dilution Factor	Result	Reporting Limit	MDL	Result Qualifier	EPA Qualifier
7429-90-5	ALUMINUM	1	7000	20	0.69		
7440-36-0	ANTIMONY	1	1.8	2	0.27	B L	
7440-38-2	ARSENIC	1	19	1	0.28		
7440-39-3	BARIUM	1	290	10	0.018		
7440-41-7	BERYLLIUM	1	0.71	0.5	0.015		
7440-43-9	CADMIUM	1	5.4	0.5	0.017		
7440-70-2	CALCIUM	1	6500	100	0.54		
7440-47-3	CHROMIUM	1	21	1	0.048		
7440-48-4	COBALT	1	6.4	1	0.05		
7440-50-8	COPPER	1	71	1	0.032		
7439-89-6	IRON	1	16000	10	0.8		
7439-92-1	LEAD	1	700	0.3	0.14		
7439-95-4	MAGNESIUM	1	2400	100	0.79		
7439-96-5	MANGANESE	1	380	1	0.025		
7440-02-0	NICKEL	1	12	2	0.078		
7440-09-7	POTASSIUM	1	2600	100	5.3		
7782-49-2	SELENIUM	1	1	0.5	0.27		
7440-22-4	SILVER	1	0.68	1	0.063	B	
7440-23-5	SODIUM	1	280	100	0.25	J	
7440-28-0	THALLIUM	1	1	1	0.39	U	
7440-62-2	VANADIUM	1	24	1	0.033		
7440-66-6	ZINC	1	620	2	0.29		

Data Package ID: IT0010156-1

Data Printed: Tuesday, October 24, 2000

Paragon Analytics Inc.

LIMS Version: 1.902

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Total ICP Metals

Method SW6010

Sample Results

Lab Name: Paragon Analytics, Inc.

Work Order Number: 0010156

Client Name: Morrison Knudsen Corporation

ClientProject ID: VB/I-70 IIIIB 4994

Field ID: 3-15628-F Lab ID: 0010156-5	Sample Matrix: SOIL % Moisture: 0.4 Date Collected: 19-Oct-00 Date Extracted: 23-Oct-00 Date Analyzed: 23-Oct-00	Prep Batch: IP001023-1 QCBatchID: IP001023-1-1 Run ID: IT001023-1A4 Cleanup: NONE Basis: Dry Weight	Sample Aliquot: 1 G Final Volume: 100 ML Result Units: MG/KG File Name: TS01023
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CASNO	Target Analyte	Dilution Factor	Result	Reporting Limit	MDL	Result Qualifier	EPA Qualifier
7428-90-5	ALUMINUM	1	7500	20	0.69		
7440-36-0	ANTIMONY	1	1.6	2	0.27	B 4	
7440-38-2	ARSENIC	1	19	1	0.28		
7440-39-3	BARIUM	1	310	10	0.018		
7440-41-7	BERYLLIUM	1	0.73	0.5	0.015		
7440-43-9	CADMIUM	1	5.5	0.5	0.017		
7440-70-2	CALCIUM	1	6600	100	0.54		
7440-47-3	CHROMIUM	1	21	1	0.048		
7440-48-4	COBALT	1	6.5	1	0.05		
7440-50-8	COPPER	1	63	1	0.032		
7439-89-6	IRON	1	17000	10	0.8		
7439-92-1	LEAD	1	710	0.3	0.14		
7439-95-4	MAGNESIUM	1	2500	100	0.79		
7439-96-5	MANGANESE	1	400	1	0.025		
7440-02-0	NICKEL	1	12	2	0.078		
7440-09-7	POTASSIUM	1	2700	100	5.3		
7782-49-2	SELENIUM	1	1.2	0.5	0.27		
7440-22-4	SILVER	1	0.69	1	0.063	B	
7440-23-5	SODIUM	1	270	100	0.25	J	
7440-28-0	THALLIUM	1	1	1	0.39	U	
7440-62-2	VANADIUM	1	24	1	0.033		
7440-66-6	ZINC	1	620	2	0.29		

Data Package ID: IT0010156-1

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Total ICP Metals**Method SW6010****Sample Results**

Lab Name: Paragon Analytics, Inc.

Work Order Number: 0010156

Client Name: Morrison Knudsen Corporation

ClientProject ID: VBI-70 IIIB 4994

Field ID:	3-15630-F
Lab ID:	0010156-6

Sample Matrix: SOIL

% Moisture: 0.2

Date Collected: 19-Oct-00

Date Extracted: 23-Oct-00

Date Analyzed: 23-Oct-00

Prep Batch: IP001023-1

QCBatchID: IP001023-1-1

Run ID: IT001023-1A4

Cleanup: NONE

Basis: Dry Weight

Sample Aliquot: 1 G

Final Volume: 100 ML

Result Units: MG/KG

File Name: TS01023

CASNO	Target Analyte	Dilution Factor	Result	Reporting Limit	MDL	Result Qualifier	EPA Qualifier
7429-90-5	ALUMINUM	1	8000	20	0.69		
7440-36-0	ANTIMONY	1	1.8	2	0.26	B4	
7440-38-2	ARSENIC	1	20	1	0.28		
7440-39-3	BARIUM	1	310	10	0.018		
7440-41-7	BERYLLIUM	1	0.77	0.5	0.015		
7440-43-9	CADMIUM	1	5.7	0.5	0.017		
7440-70-2	CALCIUM	1	7000	100	0.54		
7440-47-3	CHROMIUM	1	21	1	0.047		
7440-48-4	COBALT	1	6.9	1	0.05		
7440-50-8	COPPER	1	64	1	0.032		
7439-89-6	IRON	1	18000	10	0.8		
7439-92-1	LEAD	1	760	0.3	0.14		
7439-95-4	MAGNESIUM	1	2700	100	0.79		
7439-96-5	MANGANESE	1	410	1	0.025		
7440-02-0	NICKEL	1	13	2	0.078		
7440-09-7	POTASSIUM	1	2900	100	5.3		
7782-49-2	SELENIUM	1	0.97	0.5	0.27		
7440-ZZ-4	SILVER	1	0.77	1	0.063	B	
7440-23-5	SODIUM	1	300	100	0.25	J	
7440-28-0	THALLIUM	1	1	1	0.39	U	
7440-62-2	VANADIUM	1	26	1	0.033		
7440-66-6	ZINC	1	650	2	0.29		

Data Package ID: IT0010156-1

Date Printed: Tuesday, October 24, 2000

Paragon Analytics Inc.

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B
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Total ICP Metals**Method SW6010****Sample Results**

Lab Name: Paragon Analytics, Inc.

Work Order Number: 0010156

Client Name: Morrison Knudsen Corporation

ClientProject ID: VB/I-70 IIIB 4994

Field ID: 3-15703-B
 Lab ID: 0010156-7

Sample Matrix: SOIL
 % Moisture: 0.2
 Date Collected: 19-Oct-00
 Date Extracted: 23-Oct-00
 Date Analyzed: 23-Oct-00

Prep Batch: IP001023-1
 QCBatchID: IP001023-1-1
 Run ID: IT001023-1A4
 Cleanup: NONE
 Basis: Dry Weight

Sample Aliquot: .1 G
 Final Volume: 100 ML
 Result Units: MG/KG
 File Name: TS01023

CASNO	Target Analyte	Dilution Factor	Result	Reporting Limit	MDL	Result Qualifier	EPA Qualifier
7429-90-5	ALUMINUM	1	2600	20	0.69		
7440-36-0	ANTIMONY	1	1.5	2	0.26	B4	
7440-38-2	ARSENIC	1	9.8	1	0.28		
7440-39-3	BARIUM	1	160	10	0.018		
7440-41-7	BERYLLIUM	1	0.31	0.5	0.015	B4	
7440-43-9	CADMIUM	1	2.1	0.5	0.017		
7440-70-2	CALCIUM	1	3000	100	0.54		
7440-47-3	CHROMIUM	1	9.1	1	0.047		
7440-48-4	COBALT	1	2.9	1	0.05		
7440-50-8	COPPER	1	22	1	0.032		
7439-89-6	IRON	1	6800	10	0.8		
7439-92-1	LEAD	1	900	0.3	0.14		
7439-95-4	MAGNESIUM	1	750	100	0.79		
7439-98-5	MANGANESE	1	270	1	0.025		
7440-02-0	NICKEL	1	4.4	2	0.078		
7440-09-7	POTASSIUM	1	860	100	5.3		
7782-49-2	SELENIUM	1	0.39	0.5	0.27	B	
7440-22-4	SILVER	1	0.17	1	0.063	B	
7440-23-5	SODIUM	1	120	100	0.25	5	
7440-28-0	THALLIUM	1	1	1	0.39	U	
7440-62-2	VANADIUM	1	11	1	0.033		
7440-66-6	ZINC	1	400	2	0.29		

Data Package ID: IT0010156-1

Total ICP Metals**Method SW6010****Sample Results**

Lab Name: Paragon Analytics, Inc.

Work Order Number: 0010156

Client Name: Morrison Knudsen Corporation

Client/Project ID: VB/I-70 IIIB 4994

Field ID:	3-15704-B
Lab ID:	0010156-B

Sample Matrix: SOIL

% Moisture: 0.3

Date Collected: 19-Oct-00

Date Extracted: 23-Oct-00

Date Analyzed: 23-Oct-00

Prep Batch: IP001023-1

QCBatchID: IP001023-1-1

Run ID: IT001023-1A4

Cleanup: NONE

Basis: Dry Weight

Sample Aliquot: 1 G

Final Volume: 100 ML

Result Units: MG/KG

File Name: TS01023

CASNO	Target Analyte	Dilution Factor	Result	Reporting Limit	MDL	Result Qualifier	EPA Qualifier
7429-90-5	ALUMINUM	1	2200	20	0.69		
7440-36-0	ANTIMONY	1	0.67	2	0.26	B 4	
7440-38-2	ARSENIC	1	9.1	1	0.28		
7440-39-3	BARIUM	1	100	10	0.018		
7440-41-7	BERYLLIUM	1	0.3	0.5	0.015	B 4	
7440-43-9	CADMIUM	1	1.8	0.5	0.017		
7440-70-2	CALCIUM	1	2900	100	0.54		
7440-47-3	CHROMIUM	1	7.9	1	0.048		
7440-48-4	COBALT	1	2.3	1	0.05		
7440-50-8	COPPER	1	20	1	0.032		
7439-39-6	IRON	1	6400	10	0.8		
7439-92-1	LEAD	1	370	0.3	0.14		
7439-95-4	MAGNESIUM	1	750	100	0.79		
7439-96-5	MANGANESE	1	190	1	0.025		
7440-02-0	NICKEL	1	3.7	2	0.078		
7440-09-7	POTASSIUM	1	750	100	5.3		
7782-49-2	SELENIUM	1	0.5	0.5	0.27	U	
7440-22-4	SILVER	1	0.17	1	0.063	B	
7440-23-5	SODIUM	1	76	100	0.25	B 5	
7440-28-0	THALLIUM	1	1	1	0.39	U	
7440-52-2	VANADIUM	1	8.2	1	0.033		
7440-56-6	ZINC	1	240	2	0.29		

Data Package ID: IT0010156-1

Data Printed: Tuesday, October 24, 2000

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P
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Total ICP Metals**Method SW6010****Sample Results**

Lab Name: Paragon Analytics, Inc.

Work Order Number: 0010156

Client Name: Morrison Knudsen Corporation

ClientProject ID: VB/I-70 IIIB 4994

Field ID:	3-15705-B
Lab ID:	0010156-9

Sample Matrix: SOIL

% Moisture: 0.1

Date Collected: 19-Oct-00

Date Extracted: 23-Oct-00

Date Analyzed: 23-Oct-00

Prep Batch: IP001023-1

QCBatchID: IP001023-1-1

Run ID: IT001023-1A4

Cleanup: NONE

Basis: Dry Weight

Sample Aliquot: 1 G

Final Volume: 100 ML

Result Units: MG/KG

File Name: TS01023

CASNO	Target Analyte	Dilution Factor	Result	Reporting Limit	MDL	Result Qualifier	EPA Qualifier
7429-90-5	ALUMINUM	1	2500	20	0.69		
7440-36-0	ANTIMONY	1	1	2	0.26	B 4	
7440-38-2	ARSENIC	1	9.8	1	0.28		
7440-39-3	BARIUM	1	130	10	0.018		
7440-41-7	BERYLLIUM	1	0.31	0.5	0.015	B 4	
7440-43-9	CADMIUM	1	1.9	0.5	0.017		
7440-70-2	CALCIUM	1	3100	100	0.53		
7440-47-3	CHROMIUM	1	9.7	1	0.047		
7440-48-4	COBALT	1	4	1	0.05		
7440-50-8	COPPER	1	28	1	0.032		
7439-89-6	IRON	1	8000	10	0.8		
7439-92-1	LEAD	1	400	0.3	0.14		
7439-95-4	MAGNESIUM	1	780	100	0.79		
7439-96-5	MANGANESE	1	260	1	0.025		
7440-02-0	NICKEL	1	4.2	2	0.078		
7440-09-7	POTASSIUM	1	850	100	5.3		
7782-49-2	SELENIUM	1	0.31	0.5	0.27	B	
7440-22-4	SILVER	1	0.38	1	0.063	B	
7440-23-5	SODIUM	1	88	100	0.25	B 5	
7440-28-0	THALLIUM	1	1	1	0.39	U	
7440-62-2	VANADIUM	1	9.3	1	0.033		
7440-56-6	ZINC	1	320	2	0.29		

Data Package ID: IT0010156-1

Date Printed: Tuesday, October 24, 2000

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B
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Total MERCURY**Method SW7471****Sample Results**

Lab Name: Paragon Analytics, Inc.

Client Name: Morrison Knudsen Corporation

Client Project ID: VB/I-70 IIIB 4994

Work Order Number: 0010158

Final Volume: 100 ML

Reporting Basis: Dry Weight

Matrix: SOIL

Result Units: MG/KG

Client Sample ID	Lab ID	Date Collected	Date Prepared	Date Analyzed	Percent Moisture	Dilution Factor	Result	Reporting Limit	MDL	Flag	Sample Aliquot
3-15622-B	0010158-1	10/19/2000	10/23/2000	10/23/2000	0.2	1	0.63	0.1	0.0028		.6 G
3-15623-B	0010158-2	10/19/2000	10/23/2000	10/23/2000	0.2	1	0.59	0.1	0.0028		.6 G
3-15624-B	0010158-3	10/19/2000	10/23/2000	10/23/2000	0.5	1	0.68	0.1	0.0028		.6 G
3-15627-F	0010158-4	10/19/2000	10/23/2000	10/23/2000	0.5	1	1.6	0.1	0.0028		.6 G
3-15628-F	0010158-5	10/19/2000	10/23/2000	10/23/2000	0.4	1	1.6	0.1	0.0028		.6 G
3-15630-F	0010158-6	10/19/2000	10/23/2000	10/23/2000	0.2	2	1.8	0.2	0.0058		.6 G
3-15703-B	0010158-7	10/19/2000	10/23/2000	10/23/2000	0.2	1	0.22	0.1	0.0028		.6 G
3-15704-B	0010158-8	10/19/2000	10/23/2000	10/23/2000	0.3	1	0.25	0.1	0.0028		.6 G
3-15705-B	0010158-9	10/19/2000	10/23/2000	10/23/2000	0.1	1	0.23	0.1	0.0028		.6 G
3-15700-F	0010158-10	10/19/2000	10/23/2000	10/23/2000	0.3	1	0.6	0.1	0.0028		.6 G
3-15701-F	0010158-11	10/19/2000	10/23/2000	10/23/2000	0.2	1	0.56	0.1	0.0028	N	.6 G
3-15702-F	0010158-12	10/19/2000	10/23/2000	10/23/2000	0.3	1	0.68	0.1	0.0028		.6 G

Comments:

1. ND or U = Not Detected at or above the client requested detection limit.

Data Package ID: HG0010158-1

Date Printed: Tuesday, October 24, 2000

Paragon Analytics Inc.

LIMS Version: 1.902

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